

KLEIN BROADCAST ENGINEERING, L.L.C.

dedicated to improving the science and technology of radio & television communications

**FCC Form 301 Application
for
FM Broadcast Station Construction Permit
(a minor change application)**

**AMERICAN GENERAL MEDIA of TEXAS, Inc.
KRFR (FM)
FM CHANNEL 226 A / 93.1 mHz.
SHAFTER , CALIFORNIA**

DECEMBER 2002

INTRODUCTION and ENGINEERING STATEMENT

The firm of Klein Broadcast Engineering, L.L.C., has been retained by the applicant, American General Media of Texas, Inc., the licensee of FM Broadcast Station KRFR at Shafter, California. The instant application requests a change in transmitter location and frequency change to FM Channel 226 Class A with 4.0 kilowatts E.R.P. in both the Horizontal and Vertical Planes at 123 meters HAAT. The applicant proposes maximum E.R.P. for this class at the elevation proposed. This application is being filed as a result of the Commission issuing Report and Order in MB Docket No. 02-58, RM-10415, which orders the license of FM Broadcast Station KRFR, Shafter, California, be modified to specify operation on FM Channel 226 Class A.

Engineering Exhibit E-7 is a complete FCC FM Channel Spacing Study that shows compliance with Section 73.207 of the Commission's Rules with only one exception. FM Broadcast Station KCBS(FM) at Los Angeles, California, is short spaced to the proposed KRFR site by 14.95 kilometers. Station KCBS(FM) is operating with Grandfathered Class B facilities and is contour protected as a maximum Class B station from its licensed site in this instant application. The distance between Station KCBS(FM) and Station KRFR is 163.05 kilometers, which qualifies KRFR to file this instant application under Section 73.215 of the Rules and Regulations of the Federal Communications Commission. An FCC Rule Section 73.215 grant is requested by the applicant.

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The calculated "Free Space" predicted field strength over the Principal Community, Shafter, California, from the facility proposed herein is 85.91dBu, in compliance with Section 73.315 of the Commission's Rules, providing the entire Principal Community of Shafter, California, with service in excess of the required 70dBu(f50,50).

Engineering Exhibit E-1 is a detailed plot of Station KCBS(FM)'s existing 60dBu(f50,50) and 40dBu(f50,10) contours and the proposed 60dBu(f50,50) and 34dBu(f50,10) contours of Station KRFR. This exhibit **clearly** shows **NO** prohibited overlap will occur with the implementation of the proposed facility for Station KRFR from the site proposed. The contours shown in this exhibit were calculated using the Commission's Standard Prediction Method. Three Hundred Sixty (360) radials were calculated and plotted. The terrain data used is from the DMA 3 Arc Second Terrain Datafile. If a negative elevation on a radial was calculated or the calculated elevation for a radial was determined to be less than 30 meters, the 30 meters figure was used to predict distance to contour.

Engineering Exhibits E-2 through E-6 are tabulations of the data developed to plot the contours shown in Engineering Exhibit E-1.

Engineering Exhibit E-7 is a complete FCC FM Channel Spacing Study prepared showing the Section 73.207 spacing and the Section 73.215 spacing for FM Channel 226 Class A at Shafter, California, at the specified geographic coordinates found in this instant application. The geographic coordinates have been supplied in the North American Datum of 1927 (NAD27).

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Engineering Exhibit E-10RHS is a complete and comprehensive RF Radiation Hazard Study/Evaluation of the facility proposed in the instant application. Based on the calculations and findings contained therein, the proposed new main transmission facility complies with all of the requirements of the FCC O.S.T. Bulletin, Guidelines for Human Exposure to Non-Ionizing Radio Frequency Radiation, as amended to date.

An analysis of the engineering data presented herein demonstrates compliance of the proposed facility with all of the applicable Rules and Regulations of the Federal Communications Commission as amended to date. Therefore, the applicant and licensee of FM Broadcast Station KRFR at Shafter, California, requests the Commission consider and GRANT the facility requested herein under Section 73.215 of the Commission's Rules.

Respectfully submitted,

Elliott Kurt Klein, Consulting Broadcast Engineer

For the firm:

KLEIN BROADCAST ENGINEERING, L.L.C.

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